Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

AMERICAN
Journal of Mathematics

FRANK MORLEY, EDITOR

A. COHEN, ASSISTANT EDITOR

WITH THE COÖPERATION OF

CHARLOTTE A. SCOTT, A. B. COBLE

AND OTHER MATHEMATICIANS

PUBLISHED UNDER THE AUSPICES OF THE JOHNS HOPKINS UNIVERSITY

Πραγμάτων ἔλεγχος οὐ βλεπομένων

VOLUME XLIII

BALTIMORE : THE JOHNS HOPKINS PRESS

LEMCKE & BUECHNER, *New York*
E. STEIGER & CO., *New York*
G. E. STECHERT & CO., *New York*
WILLIAM WESLEY & SON, *London*
A. HERMANN, *Paris*
ARTHUR F. BIRD, *London*

1921

PRESS OF
THE NEW ERA PRINTING COMPANY
LANCASTER, PA.

INDEX

BERRY, ARTHUR. Note on Schläfli's Elliptic Modular Functions . 186
CARMICHAEL, R. D. Boundary Value and Expansion Problems: Algebraic Basis of the Theory 69
CARMICHAEL, R. D. Boundary Value and Expansion Problems: Formulation of Various Transcendental Problems . . . 232
COBLE, ARTHUR B. Multiple Binary Forms with the Closure Property 1
DANIELL, P. J. Integral Products and Probability 143
DATTA, B. On the Motion of Two Spheroids in an Infinite Liquid along their Common Axis of Revolution 134
DICKSON, L. E. Algebraic Theory of the Expressibility of Cubic Forms as Determinants, with Application to Diophantine Analysis 102
HART, WILLIAM L. The Cauchy-Lipschitz Method for Infinite Systems of Differential Equations 226
HAZLETT, OLIVE C. Associated Forms in the General Theory of Modular Covariants 189
HOLLCROFT, TEMPLE RICE. On (2, 3) Compound Involutions . . 200
KASNER, EDWARD. Einstein's Theory of Gravitation: Determination of the Field by Light Signals 20
KASNER, EDWARD. The Impossibility of Einstein Fields Immersed in Flat Space of Five Dimensions 126
KASNER, EDWARD. Finite Representation of the Solar Gravitational Field in Flat Space of Six Dimensions 130
KASNER, EDWARD. Geometrical Theorems on Einstein's Cosmological Equations 217
LANE, E. P. Conjugate Systems with Indeterminate Axis Curves . 52
MORLEY, F. Note on Einstein's Equation of an Orbit . . . 29
MORSE, H. M. A One-to-One Representation of Geodesics on a Surface of Negative Curvature 33
POST, EMIL L. Introduction to a General Theory of Elementary Propositions 163
SPARROW, C. M. On the Fermat and Hessian Points for the Non-Euclidean Triangle and their Analogues for the Tetrahedron . 222
SCHOUTEN, J. A., AND STRUIK, D. J. On Some Properties of General Manifolds Relating to Einstein's Theory of Gravitation . . 213
WHITTEMORE, JAMES K. Reciprocity in a Problem of Relative Maxima and Minima 271